



Topics:

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Learning O

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Due date:

11:59PM Tuesday 20 Saprandr 11/59PM Tuesday 20 Saprandr 11

Weight:

35%

Individual Work

All work is individual. You may discuss ideas, approaches and problems, but you should write every line of code yourself except for code copied from the lecture notes, lecture code or lab code. You **MUST NOT** let another student see your solution code, and you **MUST NOT** look at another student's solution code. More information about Academic Misconduct can be found at:

http://www.gsu.uts.edu.au/rules/student/section-16.html

Working Language

You can choose either Java or Python to complete assignment 1. The higher mark between your Java solution and Python solution will be counted into your final grade. However, you are only credited with one of your solutions, either Java or Python, not both of them or the mixture.

The specification is illustrated based on Java. You can simply translate the Java syntax to Python for your Python solution. Detailed explanations about Python criteria will be posted on the FAQ page on ED.







The Supermarket Membership Management Department will consist of two main components for Membership Management System (MMS), an administrative component, and an MMS component.

The administrative section will allow, through text-based menus, the login and logout of administrators, the addition and removal of members in the system, the display of membership records, the display of a certain member with name, and the update of member's accounts.

The MMS component will store a list of all the membership information of the members and a list of the summary of the membership. The MMS component will also allow the creation and display of the collective tuition report as MMS record log. Finally, the MMS component will also handle the display of a certain member information.

Each membership record will include the member's ID, name, email, phone, address, type, credits, deduction rate, gas deduction rate, dollar available, pay per credits and supermarket fields.

Each supermarket record will include the pembership's name, credit, gas deduction rate dollar available, deduction rate psylps ded that the project Exam Help

The User Interface and sample I/O will be posted on the Assignment page on ED for a detailed description.

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While reading the first part of the specification, you will notice there is a lot going on.

- How many function of the property of the property
- How many classes did you identify?
- What are the fields in each class?
- How many goals did you identify?
- How many patterns did you think of that might be applicable?

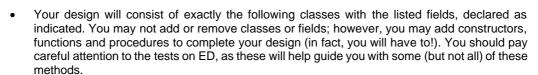
This assignment will be challenging, and you will probably want to manage your time well.

- How long do you think it will take you to code the functions?
- How long do you think it will take you to code each goal?
- A good rule of thumb is to think of an estimate, and then multiply that number by 3 or 4!
- To manage your time well, you may need to figure out which parts of the assignment you can start early.
- Which parts can you start now?
- Which parts can you start in week 6?

If you complete parts in the same week that you learn the topics (while they are fresh in your mind), they will take less time to complete.







To help visualize the design, a partial class diagram has been provided

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- Classes your design will consist of these 8 classes:
 - 1. Session
 - 2. Supermarket
 - 3. Supermarkets
 - 4. Membership
 - 5. Memberships
 - 6. Slip
 - 7. MMS
 - 8. MMSLog
 - 9. Utils (this is the class to facilitate format and simple I/O, do not change)
- Fields All the fields have been clarified in each class and they should not be modified. The fields also have some additional requirements and structures:

Lists all have the abstract type of List<>, but must be instantiated with a concrete type that UTS CRICOS PROVIDER CODE 00099F







implements the List<> behavior (you can choose either – you may also want to think about why you might do things this way).

- Constructors the constructors of the class have the following requirements:
 - 1. The main method of the program will be in the Session class.
 - 2. All constructors initialize the fields of their classes.
 - 3. The Session, Supermarkets, Memberships, and MMSLog constructors take no parameters.
 - The Supermarket constructor takes three parameters, the name, email, and password, corresponding to the three fields identically named. Other fields require no parameters but the constructor methods.
 - The slip constructor takes membership as the parameter to initialize the fields identically named.
 - 6. The MMS constructor takes supermarket and memberships as the parameters.
 - 7. The Membership constructor requires the following formula to set the value of the fields:

Type: set by expense

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totalCredit: payPerCredit * expense

deduct

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DollarAvailable: totalCredit / 200

expense Add	tyle /	payPerCted	du as	SISICTION PORT
expense <500	Bronze	20	au_ac	polot_pr
500 <= expense < 1500	Silver	10	0.1	0.15
1500 <= expense < 3000	Gold	8	0.15	0.2
3000 <= expense < 5000	Diamond	6	0.2	0.25
expense >= 5000	Platinum	4	0.25	0.3

^{*}When updating the expense for a member, the input value will be added to the existing expense of the member. When the value is positive, the expense is accumulated to the membership. Otherwise, the expense is mitigated to the membership.

8. Supermarkets has the following data for Login:

John Smith	john.smith@uts.com	user222
Jane Tyler	jane.tyler@uts.com	super123

9. Memberships has the following data.

e: Weinbereinpe hae the fellewing data:					
name	email	phone	address	ID	expense
Thomas Muller	thomas.muller@uts.com	99991111	3 Byern St. Sydney 2001	13697480	2134.5
Alice Stefan	alice.stefan@uts.com	88881111	24 Pitt St. Sydney	14517880	4512.2

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- Utils Class the Class defines the following formatting:
 - 1. Membership Format:

MembershipHeader () defines the output format of the header:

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Note: "| %-20s | %-25s | %-10s | %-10s |%n" defines the space for the string.

2. MMS Format:

slipHeader() defines the output format of the MMS header:

+-----+
| Membership Name | Expense | Credit | Dollars | Type |
+-----+

System.out.format(Utils.mmsFormat, name, expense, totalCredits, DollarAva ilable, type) will produce a string of the form:

 $\verb|name|, expense|, \verb|credit|, \verb|dollars|, \verb|type|$

Note: " | %-18s | %-12.2f | %-18.2f | %-16d | %-14.2f | %-14d | %-10s |%n " defines the space for the string.

3. Sum Format:

 ${\tt System.out.format(Utils.sumFormat,"title",value)} \ \ \textbf{will produce a string of the form:}$

Title, value





Note: " | %-18s | %-9.2f |%n " defines the space for the string.

4. Log Format:

logHeader() defines the output format of the MMS header:

+-----+
| MMS Record | RecordID |
+-----+

System.out.format(Utils.logFormat, MMSRecord, name) will produce a string of the form:

MMSRecord, name

e.g.

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Note: "| %-12s | %-9s |%n" defines the space for the string.

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Expected Workload

The time to do the assignment to a credit/distinction level has been estimated at 35 hours for a student of average ability who has completed all the tutorial and lab exercises.

Online Support

A FAQs (Frequently Asked Questions) page will be posted in the Assignment page on ED. If you have a question, check the FAQ page first, it may already be answered there. You should read the FAQ at least once before you hand in your solution, but to be safe check it every couple of days. Anything posted on the FAQ is considered to be part of the assignment specification. The FAQ will be frozen (no new entries) two days before the due date; no questions will be answered after it is frozen.

If anything about the specification is unclear or inconsistent, check the FAQ first, then contact the subject coordinator who will try to make it clearer by replying to you directly and posting the common questions and answers to the FAQ. This is similar to working on the job, where you ask your client if you are unsure what has to be done, but then you write all the code to do the task.

The preferred way to ask assignment related questions is to participate in the lectures, lab activities, UPASS, and consultation sessions. Students are expected to seek help through the following steps:





Step 1: Check the FAQ

Step 2: Ask peers or via the group discussion board

Step 3: Ask your tutor

Step 4: Forward to the subject coordinator

The Subject Coordinator may be contacted by email if you have matters of a personal nature to discuss, e.g., illness, personal issues or other matters of importance. All emails sent to subject coordinators, tutors or lecturers must have a clear subject line that states the subject number followed by the subject of the email [e.g. Subject 48024, Appointment Request], and must be sent from your UTS email address.

Requests for appointments outside the given consultation hours may be arranged where circumstances require, and to do so please contact the subject coordinator by email.

ED Marking

Your solution is marked for correctness by comparing the output of your system to the output of the benchmark system in ED. You can submit a solution to ED many times by press "MARK"; I urge you to do this, so you receive credit for your work. Any code hasn't been "MARK" by ED won't be credited.

ED will test the features of your program in a certain order, but it cannot test the more advanced goals until the basic pale are working. To receive than Dypumust have ED tests them.

Your code is marked software. If you spoo check will be manu to the document "Sp https://eduassistpro.githupsides and spoofy to the document spoof the checkers to the checkers to the document spoof the checkers to the

Submission Act We Chat edu_assist_pro

Your provisional mark and feedback is generated immediately each time you submit to ED. However, it takes time for the analysis of spoofing, plagiarism, collusion and general cheating, which will start two weeks following the due date. If you are suspected of Academic Misconduct, I will forward your case to the Misconduct Committee and will notify you by manual feedback in ED.

The due date won't be extended unless under extenuating circumstances. Submission extension within one week will be granted automatically with a late penalty. An extension CANNOT be given after the due date. For any extension beyond one week or extension without penalty, you will need to submit a Special Consideration following the Special Consideration process for special consideration for reasons including unexpected health, family or work problems.

Marking Scheme

The marks for the assignment are divided into the following functionality components (note that individual tests may test several functionality components, and a functionality component may be tested by several tests):

Functionality Component	Mark Allocation
Main Menu	4
Supermarket Menu	5





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This adds to a mark https://eduassistpro.github.io/

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